

**United States Environmental Protection Agency
Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604**

US EPA RECORDS CENTER REGION 5



515453

Date: September 16, 2014
Site Visit: Rasmussen's Dump, Spicer Road, Brighton (Green Oak Township),
Michigan 48116
From: Howard Caine, RPM *mark*
To: File

Introduction and Purpose

The United States Environmental Protection Agency (U.S. EPA) Region 5 conducted a Site Visit as part of the Five-Year Review at Rasmussen's Dump. The Site was toured and paperwork was reviewed. A meeting was also held with a representative of the Livingston County Road Commission to discuss installing groundwater monitoring wells along Spicer Road. The Site Visit took place on August 25, 2014.

Participants

Howard Caine, U.S. EPA

Keith Krawczyk, Michigan Department of Environmental Quality (MDEQ)

J.R. "Bart" Bartholomy, Conestoga-Rovers & Associates (CRA)

Steve Rapai, CRA

Kim Hiller, Livingston County Road Commission

Inspection

On-Site Documents & Records Verified

The O&M Documents, Site Specific Health and Safety Plan, and O&M and OSHA Training Records were available on-site. Groundwater monitoring records are mailed to U.S. EPA and MDEQ on a quarterly basis.

O&M Costs

The O&M is performed for the PRP by CRA. O&M cost records were not available on-site, but Mr. Bartholomy estimated that the annual operating costs are approximately

\$120,000. Mr. Bartholomy stated that the Site appeared to be operating normally and that there were no unanticipated or unusually high O&M costs other than the cost for replacing the lines for the ozone sparging system since the prior Five Year Review.

Access and Institutional Controls

Fencing around the Site appeared to be adequate and intact. Signs were also placed on the fence around the Site. The fence to the Site is locked.

U.S. EPA requested that the PRPs perform an Institutional Control (IC) Study at the Site and the PRPs completed it. The ICs are being updated into the form of Restrictive Covenants. U.S. EPA and MDEQ are reviewing the draft documents.

There was no evidence of vandalism or trespassing; land use changes on-site; and land use changes off-site.

General Site Conditions

The roads appeared to be maintained. The Site appeared to be in adequate shape. One sparge point had settled on the south side of the landfill and needed filling in.

Landfill Covers

Landfill Surface

There was no evidence of settlement, cracking, erosion, holes, bulges, water damage or slope instability in the landfill cover. The landfill cover is comprised of grass.

Benches

The landfill does not have benches.

Letdown Channels

The letdown channel had no evidence of settlement, degradation, erosion, undercutting, obstructions or excessive growth.

Cover Penetrations

Gas Vents

The Site has passive gas vents. The gas vents were sampled initially, but after review of the low emissions from the vents, the gas vents were no longer required to be sampled.

Monitoring Wells

The monitoring wells that were observed were properly locked and secured, are routinely sampled and were in good condition.

Gas Collection and Treatment

This Site does not have a gas collection and treatment system.

Cover Drainage Layer

The cover drainage layer has functioning outlet rock. The outlet rock is inspected.

Detention/Sedimentation Ponds

There was no evidence of siltation or erosion.

Retaining Walls

This Site does not have retaining walls.

Perimeter Ditches/Off-Site Discharge

This Site does not have perimeter ditches or off-site discharge

Vertical Barrier Walls

This Site does not have vertical barrier walls.

Groundwater/Surface Water Remedies

The pump and treat system was shutdown in early 2000.

The groundwater is being treated with an Ozone/Oxygen Sparging System. The ozone/oxygen sparging system consists of an air compressor, oxygen concentrator, ozone generator (ozone generated by super high voltage), a distribution panel and more distribution valves in front of the treatment plant. The system is in good condition. The sampling ports are properly marked and functional and the equipment was properly identified. The electrical enclosures and panels appeared to be in good condition. The treatment building also appeared to be in good condition.

Monitoring Data

The monitoring data is routinely submitted on-time and is of acceptable quality. The groundwater suggests that the groundwater plume is effectively contained and that the contaminants, in general, are declining or remaining stable.

Attachments

Five-Year Review Site Inspection Checklist



Photo 1: Ozone Generator



Photo 2: Ozone Concentrator



Photo 3: Groundwater Monitoring Well Nest CRA-RA-26



Photo 4: Groundwater Monitoring Well CRA-RA-27

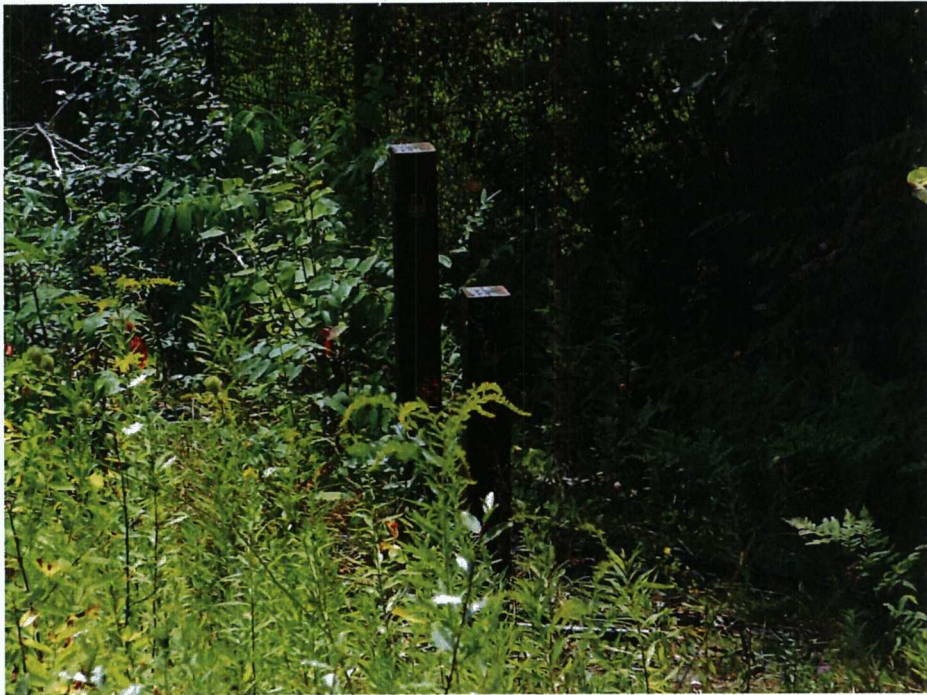


Photo 5: Groundwater Monitoring Well Nest CRA-RA-26



Photo 6: Collapsed Sparge Point to be filled



Photo 7: Path on southern end of landfill



Photo 8: Fencing along southern end of landfill



Photo 9: Path along the southern end of the landfill

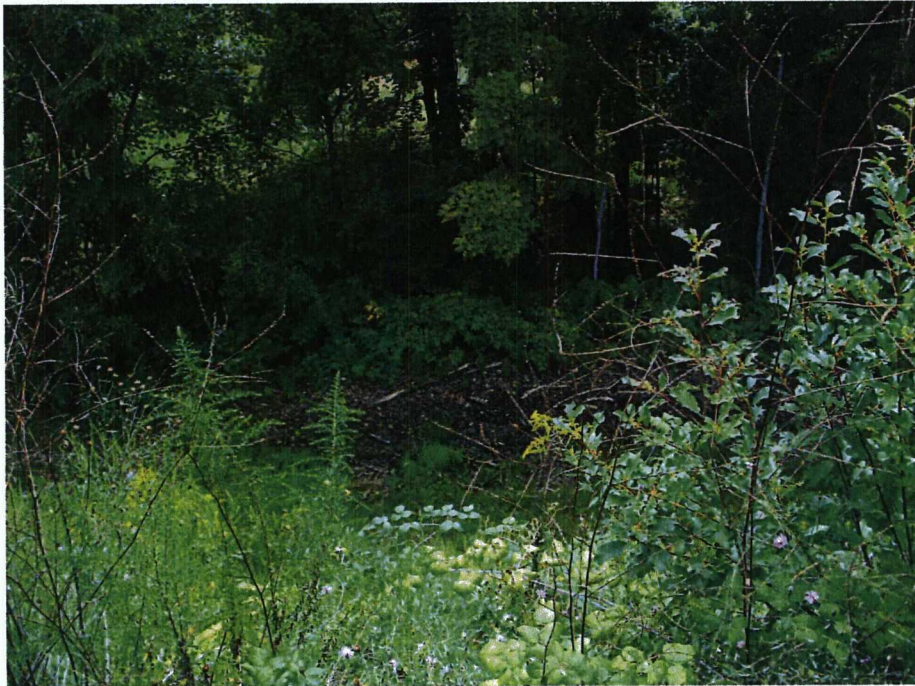


Photo 10: Fencing and slope along southern end of landfill



Photo 11: Passive gas vents on top of landfill



Photo 12: Passive gas vent on top of landfill



Photo 11: Top of landfill overlooking NPL Deleted Spiegelberg Superfund site

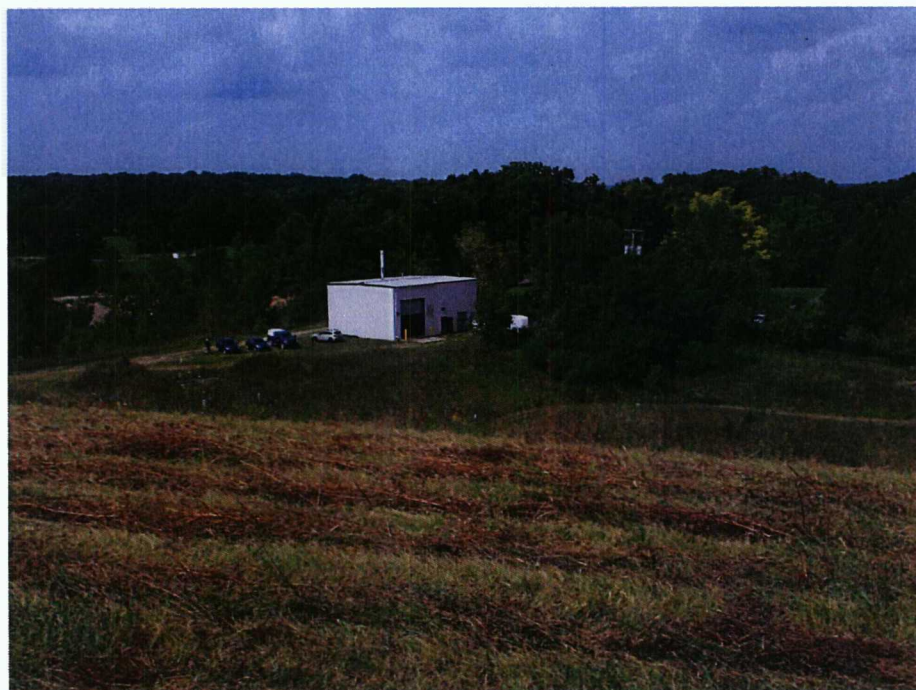


Photo 12: Rasmussen's Dump Ozone Sparging Building



Photo 13: Top of landfill overlooking Rasmussen property



Photo 14: Warning sign posted on fence



Photo 15: South side of Spicer Road facing west



Photo 16: South side of Spicer Road facing west



Photo 17: Spicer Road facing west



Photo 18: South side of Spicer Road facing east



Photo 19: Spicer Road facing east



Photo 20: North side of Spicer Road facing east